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DATE MAILED: 11/19/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/759,477	01/12/2001	Hirofumi Kawamura	203843US6	1740	
75	90 11/19/2003	EXAMINER			
OBLON SPIVAK MCCLELLAND MAIER & NEUSTADT 1755 JEFFERSON DAVIS HIGHWAY FOURTH FLOOR			SHIN, CHRISTOPHER B		
			ART UNIT	PAPER NUMBER	
ARLINGTON,		2182	7		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applio	ation No.	Applicant(s)	7
Office Action Summary		09/75	9,477	KAWAMURA ET AL	••
		Exami	ner	Art Unit	
		Christo	opher B Shin	2182	
The MAII Period for Reply	LING DATE of this commun	nication appears on	the cover sheet with	the correspondence add	ress
THE MAILING E - Extensions of time r after SIX (6) MONT - If the period for repl If NO period for repl - Failure to reply with - Any reply received by	O STATUTORY PERIOD F DATE OF THIS COMMUN may be available under the provisions HS from the mailing date of this com- ty specified above is less than thirty (3 by is specified above, the maximum so- in the set or extended period for reply by the Office later than three months adjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136(a). In n munication. 30) days, a reply within the tatutory period will apply ar y will, by statute, cause the	o event, however, may a repl statutory minimum of thirty (; nd will expire SIX (6) MONTH application to become ABAN	y be timely filed 30) days will be considered timely. S from the mailing date of this con IDONED (35 U.S.C. § 133).	nmunication.
1) Respons	sive to communication(s) fi	iled on <u>22 August 2</u>	<u>2003</u> .		
2a)⊠ This action	on is FINAL .	2b) This action	n is non-final.		
	s application is in condition accordance with the practions				merits is
·	<u>1-20</u> is/are pending in the	application			
,	above claim(s) is/a	• •	consideration.		
	is/are allowed.				
<u> </u>	1-20 is/are rejected.				
	is/are objected to.				
	are subject to restri	ction and/or election	n requirement.		
Application Papers					
9) The specif	ication is objected to by th	ne Examiner.			
10) The drawing	ng(s) filed on is/are	: a)□ accepted or b)□ objected to by the	Examiner.	
Applicant	t may not request that any ob	jection to the drawin	g(s) be held in abeyand	ce. See 37 CFR 1.85(a).	
11)☐ The propos	sed drawing correction file	ed on is: a)[]approved b)☐ disa	approved by the Examiner	·.
If approve	ed, corrected drawings are re	equired in reply to this	office action.		
12)☐ The oath o	or declaration is objected to	o by the Examiner.			
Priority under 35 L	J.S.C. §§ 119 and 120				
13) Acknowle	dgment is made of a clain	n for foreign priority	under 35 U.S.C. § 1	I19(a)-(d) or (f).	
a)∐ All b)[☐ Some * c)☐ None of:				
1.☐ Cer	rtified copies of the priority	documents have t	een received.		
2.☐ Cer	rtified copies of the priority	documents have l	peen received in App	lication No	•
	pies of the certified copies application from the Internached detailed Office action	national Bureau (P	CT Rule 17.2(a)).		tage
14) Acknowledg	gment is made of a claim	for domestic priorit	y under 35 U.S.C. §	119(e) (to a provisional a	application).
_ :	ranslation of the foreign la gment is made of a claim	'	• •		
Attachment(s)		•	_		
	ces Cited (PTO-892) erson's Patent Drawing Review (I sure Statement(s) (PTO-1449) F			mmary (PTO-413) Paper No(somal Patent Application (PTO)	

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DETAILED ACTION

1. The Amendment received August 22, 2003 has been entered and carefully considered. Claims 1\(\frac{1}{2}\)-2\(\theta\) are pending in the application.

Claim Rejections - 35 USC § 112

- 2. Claims 3-4 & 9-12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- a.In claim 3, line 3, the intended meaning of the phrase "terminal control function optimal" is unclear from the context of the claim.
- b. In claim 9, lines 5, 6, 10 & 12 the phrase "terminal control apparatus" lacks proper and clear antecedent basis; line 8, the phrase "terminal device control functions selected and provided from the terminal control apparatus" lacks and proper and functional antecedent basis. There were no control functions selected and provided form the terminal control apparatus. The same applies to claims 11

Response to Arguments

3. Applicant's arguments filed August 22, 2003 have been fully considered but they are not persuasive. On pages 11-12, the applicant argued that the examiner's 103 art rejection did not meet the requirements in 37 CFR 1.104(c)(2). The examiner strongly disagrees with the applicant's argument without clear support. In addition, the examiner has modified the following 103 art rejection to respond to the applicant's argument.

For the above reasons, the examiner maintains the art rejection as follows.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made

- 5. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Belotserkovskiy et al. (6,453,210).
- i. In Columns 5-12 & the respective drawing section, of the Belotserkovskiy reference teaches all of the basic claimed limitations as follows:

Claim 1

Belotserkovskiy (fig 1)

- terminal control apparatus
 - feature of (11, 14, 18, 19)
- terminal device
- feature of (31)
- communication means for performing communication between the terminal device and the terminal control apparatus
 - feature of (HUB/SERVER & OTHER SERVER(S))
- control means for controlling the terminal device
 - feature of the description of (ICA) in combination with (11,14,16,18,19, and OTHER SERVER(S) & SERVERS/HUB), Columns 5-12
- personal user data peculiar to a separate user terminal
 - feature of (16) which develop and add new recipes for new cast parts, see also column 6, lines 40-60
- by using a terminal control function that accords with the terminal device and personal user data peculiar to a separate user terminal which is communicating with the apparatus through the communication means
 - feature of the description of (ICA) in combination with (11,14,16,18,19 and OTHER SERVER(S) & SERVERS/HUB), Columns 5-12

Claim 2

Belotserkovskiy (fig 1)

- the control means selects an optimal one of plural available terminal control means for the terminal device, and performs the optimal terminal control function selected, thereby to control the terminal device
 - feature of (ICA, DDE, SQL,, MMI) in combination with (11, 14, 16, 18, 19 and OTHER SERVER(S) & SERVER/HUB) and database that maintains & provides constant updated data and status information for best possible performances, See columns 5-6

Claim 3

Belotserkovskiy (fig 1)

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- control means comprises selection means for selecting the optimal terminal control function, in accordance with terminal information that represents terminal device type and terminal device capabilities, and function-performing means for performing the optimal terminal control function selected by the selection means

-feature of (ICA, DDE, SQL, MMI) in combination with (11, 14, 16, 18, 19 and OTHER SERVER(S) & SERVER/HUB) and database that maintains & provides constant updated data and status information for best possible performances, See columns 5-6

Claim 4

Belotserkovskiy (fig 1)

- function-performing means comprises function control means for controlling various function units of the terminal device, and the function control means controls the functions corresponding to various function units in accordance with the terminal capacity data contained in the terminal information

-feature of (ICA, DDE, SQL, MMI) in combination with (11, 14, 16, 18, 19 and OTHER SERVER(S) & SERVER/HUB) and database that maintains & provides constant updated data and status information for best possible performances, See columns 5-6

Claim 5

Belotserkovskiy (fig 1)

- wherein information is received from and transmitted to the terminal device through a terminal control system that operates regardless of the type of the terminal device present

-feature of (ICA, DDE, SQL, MMI) in combination with (11, 14, 16, 18, 19 and OTHER SERVER(S) & SERVER/HUB) and database that maintains & provides constant updated data and status information for best possible performances, See columns 5-6

Claim 9

Belotserkovskiy (fig 1)

- terminal device having various function units
 - feature of (31)
- communication means for performing communication between the terminal device and the terminal control apparatus
 - feature of (HUB/SERVER & OTHER SERVER(S)) communication between (31) and (11,14,16,17,18,19)
- control means for transmitting terminal information to the terminal control apparatus and for controlling the function units to perform specific processes in accordance with terminal device control functions selected and provided from the terminal control apparatus responsive to the terminal information received at the terminal control apparatus

-feature of (31) having (PLCs) communicating between (ICA, DDE, SQL, MMI) in combination with (11, 14, 16, 18, 19 and OTHER SERVER(S) & SERVER/HUB) and database that maintains & provides constant updated data and status information for best possible performances, See columns 5-

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- wherein said terminal information indicates what type of terminal device is communicating with the terminal control apparatus and capabilities of the terminal device communicating with the terminal control apparatus

-feature of (ICA, DDE, SQL, MMI) in combination with (11, 14, 16, 18, 19 and OTHER SERVER(S) & SERVER/HUB) and database that maintains & provides constant updated data and status information for best possible performances, See columns 5-6, and in column 8, lines 28-29 recognizes the different types of machine can be controlled by ICA via PLCs

Claim 10 Belotserkovskiy (fig 1)

- wherein the control means comprises information-storing means for storing the terminal information
 - feature of PLC's memory (13,21,22)
- information-transmitting means for acquiring the terminal information from the informationstoring means and transmitting the acquired terminal information to the terminal control apparatus and function-performing means for causing the function units to perform the specific processes
 - feature of PLCs and its memory (13,21,22) that are utilized to control all of the parts of (31,41,51) and also in communication with (ICA, DDE, SQL, MMI) in combination with (11, 14, 16, 18, 19 and OTHER SERVER(S) & SERVER/HUB) and database that maintains & provides constant updated data and status information for best possible performances, See columns 5-12
- ii. As for apparatus claims 1-5 & 9-10, the teachings of the Belotserkovskiy reference teaches all of the basic claimed limitations that are substantially identical to the claimed invention, due to the slight difference in actual application (the claimed invention is not specifically directed to casting processing). However, the Belotserkovskiy reference does teach all of the equivalent limitations of the claimed invention that are substantially identical. It would have been obvious at the time the invention was made to one having ordinary skill in the art to come up with the claimed invention from the teachings of Belotserkovskiy for the reasons stated above.

iii.It is noted that 1) claims 6-8, 11-12 & 2) claims 13-20 respectively claims Method version (1) & Program version(2) that are functionally & substantially identical to the above apparatus claims. In addition, it is also noted that the above noted claims sets are NOT

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separately patentable from the detailed teachings of the apparatus claims 1-5 & 9-10; therefore,

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the teachings of the apparatus claims are similarly applied.

iv. If the applicant believes that the Method & Program version claims are separately & distinctively patentable from the apparatus claims, then the Method & Program

version claims should be canceled and filed separately from this application, respectively.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is

reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final

7. Any Response To This Action Should Be Mailed To:

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action.

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Any Other Telephone Communication Should Be Directed To

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mr. Shin whose telephone number is (703) 305-9658. The examiner can normally be reached on Monday - Thursday from 7:00 AM to 4:00 PM.

Christopher B. Shin

PRIMARY EXAMINER
ART UNIT 2182

Chillands

Christopher B. Shin November 16, 2003